

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**HUMAN VASCULAR ENDOTHELIAL GROWTH FACTOR 2**

the specification of which [ ] is attached hereto or  was filed on 6/6/95 as Application Serial No. Q8/465,968 and was amended on \_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed. Prior Foreign Application(s):

<u>08/207,550</u>	<u>U.S.A.</u>	<u>March 8, 1994</u>	<u>Priority Claimed</u>
(Number)	(Country)	(Day/Month/Year Filed)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112. I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

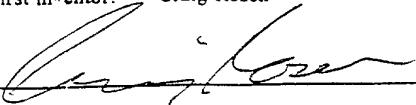
<u>(Application Serial No.)</u>	<u>(Filing Date)</u>	<u>(Status - patented, pending, abandoned)</u>
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<u>(Application Serial No.)</u>	<u>(Filing Date)</u>	<u>(Status - patented, pending, abandoned)</u>
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I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: John N. Bain (Reg. No. 18,651); John G. Gilfillan, III (Reg. No. 22,746); Elliot M. Olstein (Reg. No. 24,025); Raymond J. Lillie (Reg. No. 31,778); Charles J. Herron (Reg. No. 28,019); William Squire (Reg. No. 25,378); and Gregory Ferraro (Reg. No. 36,134) of Carella, Byrne, Bain, Gilfillan Cecchi, Stewart & Olstein; Robert H. Benson (Reg. No. 30,446) of Human Genome Sciences, Inc., 9410 Key West Ave, Rockville, Maryland 20850-3338. Address correspondence and telephone calls to Gregory D. Ferraro c/o Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein, 6 Becker Farm Road, Roseland, NJ 07068 - (201) 994-1700.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: Craig Rosen

Inventor's signature: 

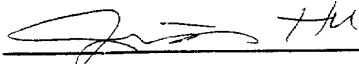
Date: 8/3/95

Residence: 22400 Rolling Hill Road, Laytonsville, Maryland 20882

Citizenship: USA

Post Office Address: Same

Full name of second joint inventor: Jing-Shan Hu

Inventor's signature: 

Date: 8/3/95

Residence: 16125 Howard Landing Drive, Gaithersburg, Maryland 20878

Citizenship: China

Post Office Address: Same

Full name of third joint inventor: Liang Cao

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: 18 B Suncrest Tower, Monmouth Terrace, Hong Kong

Citizenship: China

Post Office Address: Same

Docket No.: 325800-288

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

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I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**HUMAN VASCULAR ENDOTHELIAL GROWTH FACTOR 2**

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Priority Claim	Yes	No
<u>08/207,550</u>	<u>U.S.A.</u>	<u>March 8, 1994</u>
(Number)	(Country)	(Day/Month/Year Filed)

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<u>(Application Serial No.)</u>	<u>(Filing Date)</u>	<u>(Status - patented, pending, abandoned)</u>
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Full name of sole or first inventor: Craig Rosen

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 22400 Rolling Hill Road, Laytonsville, Maryland 20882

Citizenship: USA

Post Office Address: Same

Full name of second joint inventor: Jing-Shan Hu

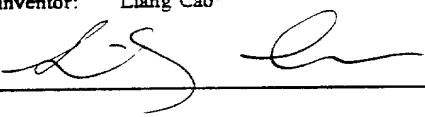
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 16125 Howard Landing Drive, Gaithersburg, Maryland 20878

Citizenship: China

Post Office Address: Same

Full name of third joint inventor: Liang Cao

Inventor's signature:  Date: Aug. 18, 1995

Residence: 18 B Suncrest Tower, Monmouth Terrace, Hong Kong

Citizenship: China

Post Office Address: Same

Docket No. 325800-288

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Rosen et al.

Application Serial No.: 08/465,968

Art Unit: 1646

Filed: June 6, 1995

Examiner: Saoud, C.

For: **Human Vascular Endothelial Growth  
Factor 2** Attorney Docket No.: PF112P1

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST/  
REVOCATION OF PRIOR POWER OF ATTORNEY**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Human Genome Sciences, Inc., organized and existing under the laws of the State of Delaware, having its principal place of business at 9410 Key West Avenue, Rockville, Maryland 20850, is assignee of record of the entire right, title and interest for the above-identified application by virtue of an assignment recorded in the U.S. Patent and Trademark Office on April 22, 1996, at Reel 7937, Frames 807 and 813.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The assignee, Human Genome Sciences, Inc., hereby revokes all previous powers of attorney or authorizations of agent given in the above-captioned application.

The assignee, Human Genome Sciences, Inc., hereby appoints the Practitioners at **Customer Number 22195** as its attorneys or agents with full power of substitution, association, and revocation to prosecute the application identified above, including any continuation or divisional applications, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

The assignee also requests that the correspondence address be directed to **Customer No. 22195.**

The undersigned, whose title is supplied below, is empowered to sign this document on behalf of the assignee.

On behalf of Human Genome Sciences, Inc.

For: Human Genome Sciences, Inc

Signature: James H. Davis

By: James H. Davis, Ph.D

Title: Senior Vice President and General Counsel

Date: December 18, 2001

MMW/AKR/lcc

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, **Liang Cao, Queen Mary Hospital, Department of Microbiology, University of Hong Kong, Hong Kong**, hereby sell, assign and transfer to **HUMAN GENOME SCIENCES, INC.** ("assignee") having a place of business at **9410 Key West Avenue, Rockville, Maryland 20850-3338** its successors, assigns and legal representatives, their entire rights, titles and interests for the United States and all other countries, in and to the improvements(s) known as:

**HUMAN VASCULAR ENDOTHELIAL GROWTH FACTOR 2**

for which application(s) for United States Letters Patent has (have) been executed by the undersigned on August 18, 1995 also known as United States Application Serial No. 08/465,968, filed June 6, 1995, and is entitled:

**HUMAN VASCULAR ENDOTHELIAL GROWTH FACTOR 2**

and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represent and warrant to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grant power to John N. Bain (Reg. No. 18,651); John G. Gilfillan, III (Reg. No. 22,746); Elliot M. Olstein (Reg. No. 24,025); Raymond J. Lillie (Reg. No. 31,778); Charles J. Herron (Reg. No. 28,019); William Squire (Reg. No. 25,378); Gregory D. Ferraro (Reg. No. 36,134); and Robert H. Benson (Reg. No. 30,446) to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:



Liang Cao

Date: Feb. 29, 1996

325800-288  
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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, **Craig A. Rosen** of **22400 Rolling Hill Road, Laytonsville, Maryland 20882**; **Jing-Shan Hu** of **16125 Howard Landing Drive, Gaithersburg, Maryland 20878** hereby sell, assign and transfer to **HUMAN GENOME SCIENCES, INC.** ("assignee") having a place of business at **9410 Key West Avenue, Rockville, Maryland 20850-3338** its successors, assigns and legal representatives, their entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

**HUMAN VASCULAR ENDOTHELIAL GROWTH FACTOR 2**

for which application(s) for United States Letters Patent has (have) been executed by the undersigned on August 3rd, 1995 also known as United States Application Serial No. 08/465,968, filed June 6, 1995, and is entitled:

**HUMAN VASCULAR ENDOTHELIAL GROWTH FACTOR 2**

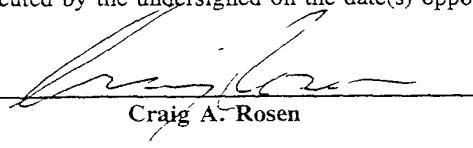
and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

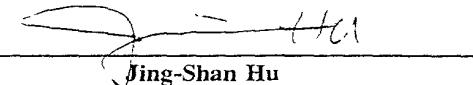
The undersigned hereby represent and warrant to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grant power to John N. Bain (Reg. No. 18,651); John G. Gilfillan, III (Reg. No. 22,746); Elliot M. Olstein (Reg. No. 24,025); Raymond J. Lillie (Reg. No. 31,778); Charles J. Herron (Reg. No. 28,019); William Squire (Reg. No. 25,378); Gregory D. Ferraro (Reg. No. 36,134); and Robert H. Benson (Reg. No. 30,446) to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:   
Craig A. Rosen

Date: 3/24/96

Inventor's Signature:   
Jing-Shan Hu

Date: 2/21/96